

W4 - What are possible
solutions of:

$$3x + 4y > 40 \quad ?$$

~~(0,0)~~

$0 > 40$? NO!

yes! list at least 3.

$(12, 4)$

$$3(12) + 4(4) > 40?$$

$$36 + 16 = 52 > 40 \checkmark$$

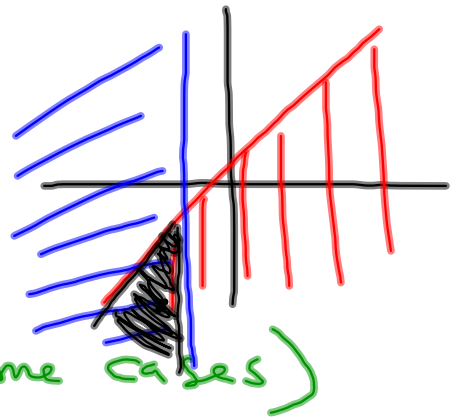


P171 #8-11

• Draw a sketch

(solve for y in some cases)

↑
Show this



• 1 point that is in the solution

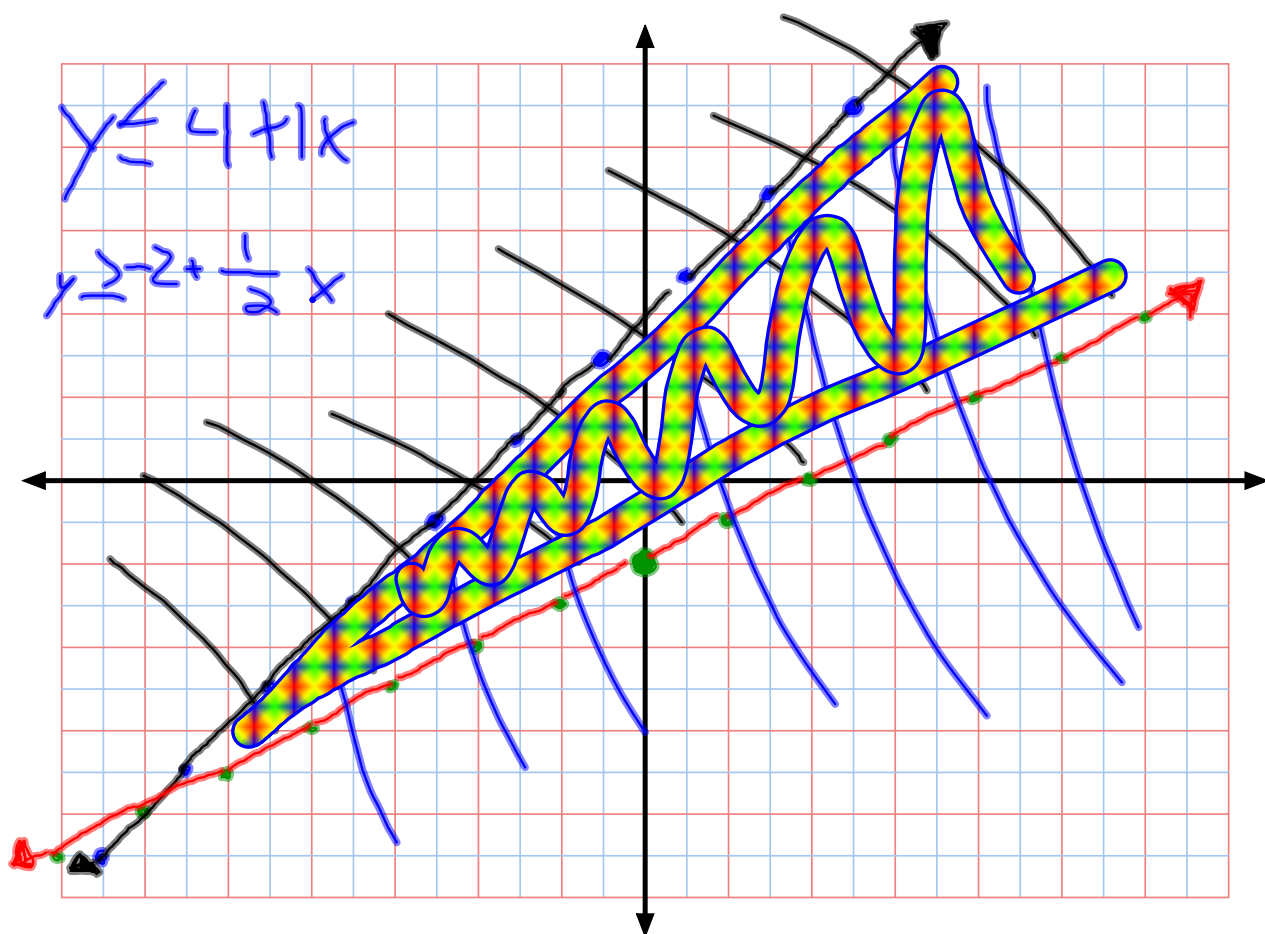


$$y|x$$

$$x=1 \quad y=1$$

$$\begin{aligned}
 (9) \quad & \cancel{4x} - 4y \geq 16 \\
 & \frac{-4y \geq 16 - 4x}{-4y \quad -4} \\
 & y \leq 4 + 1x
 \end{aligned}$$

$$\begin{aligned}
 & -x + 2y \geq -4 \\
 & \frac{+1x}{2} \quad \frac{+1x}{2} \\
 & \frac{2y \geq -4 + 1x}{2} \\
 & y \geq -2 + \frac{1}{2}x
 \end{aligned}$$



$$y \geq \frac{1}{2}x - 2$$



$$x < 4$$

$$x = 4$$



$$-x \geq y$$

$$y \leq -x$$

$$y = mx + b$$

$$m = -1 = -\frac{1}{1}$$

